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PATENT & TRADEMARK OFFICE

FIG. 1

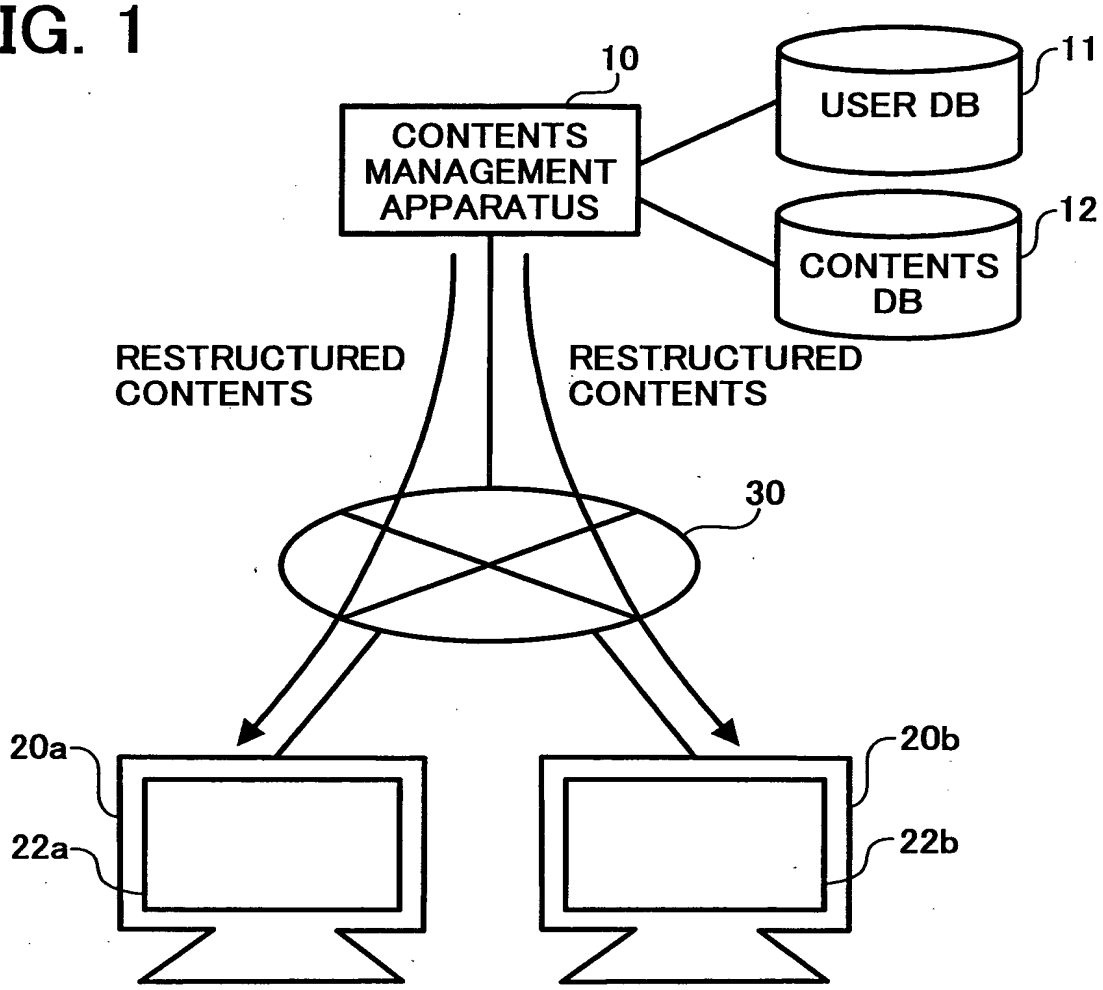
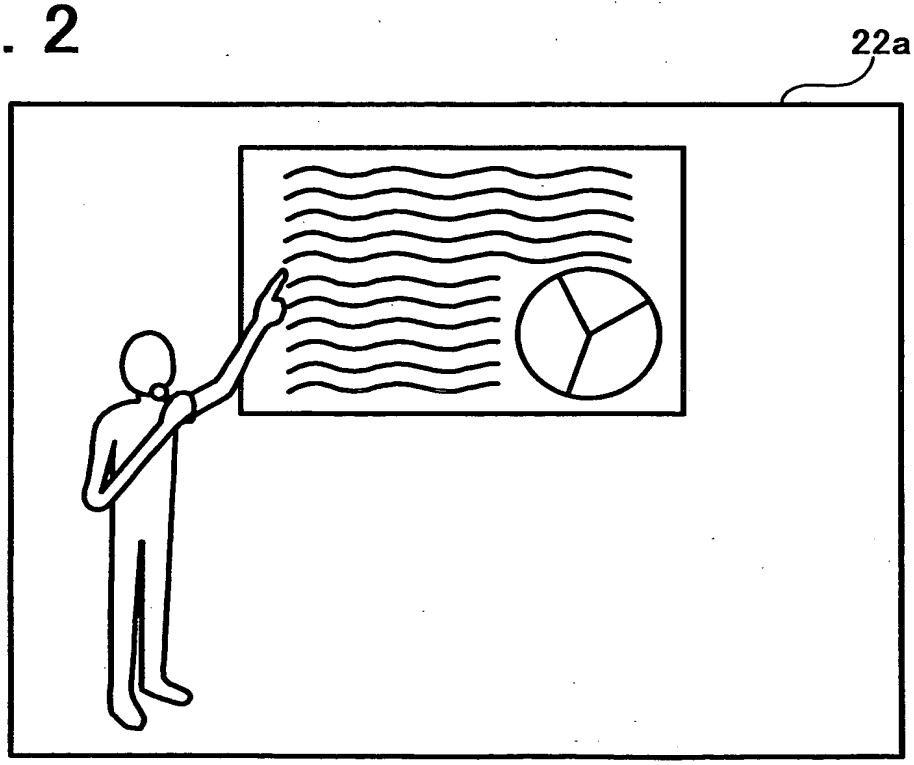


FIG. 2



App No.: 10/791,874 Docket No.: S0255.0017/P017
Inventor: Takako Hashimoto et al.
Title: CONTENTS MANAGEMENT APPARATUS, CONTENTS MANAGEMENT SYSTEM, CONTENTS MANAGEMENT METHOD, COMPUTER PRODUCT, AND CONTENTS DATA

FIG. 3

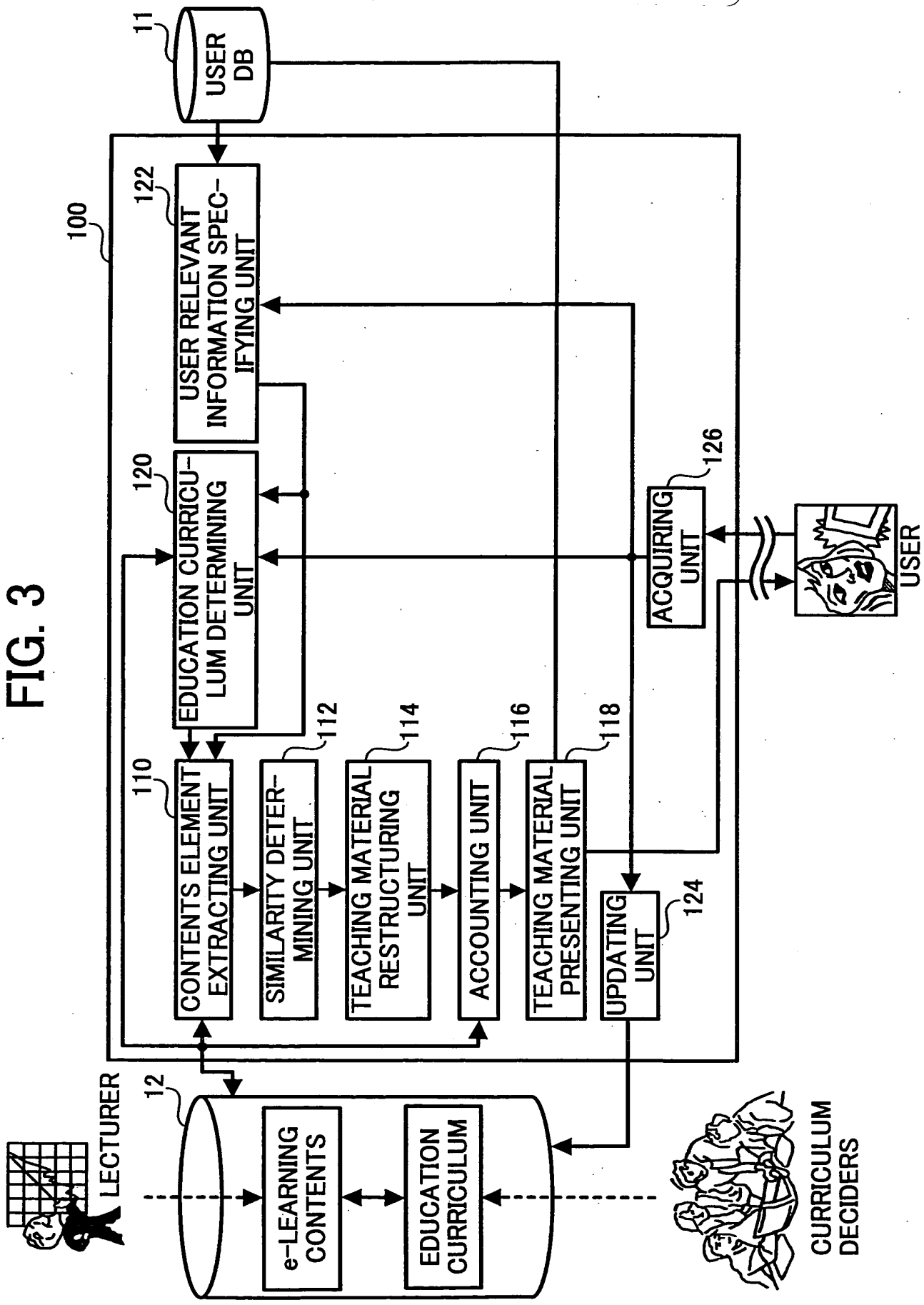


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FIG. 4 FIG. 4A FIG. 4B

FIG. 4A

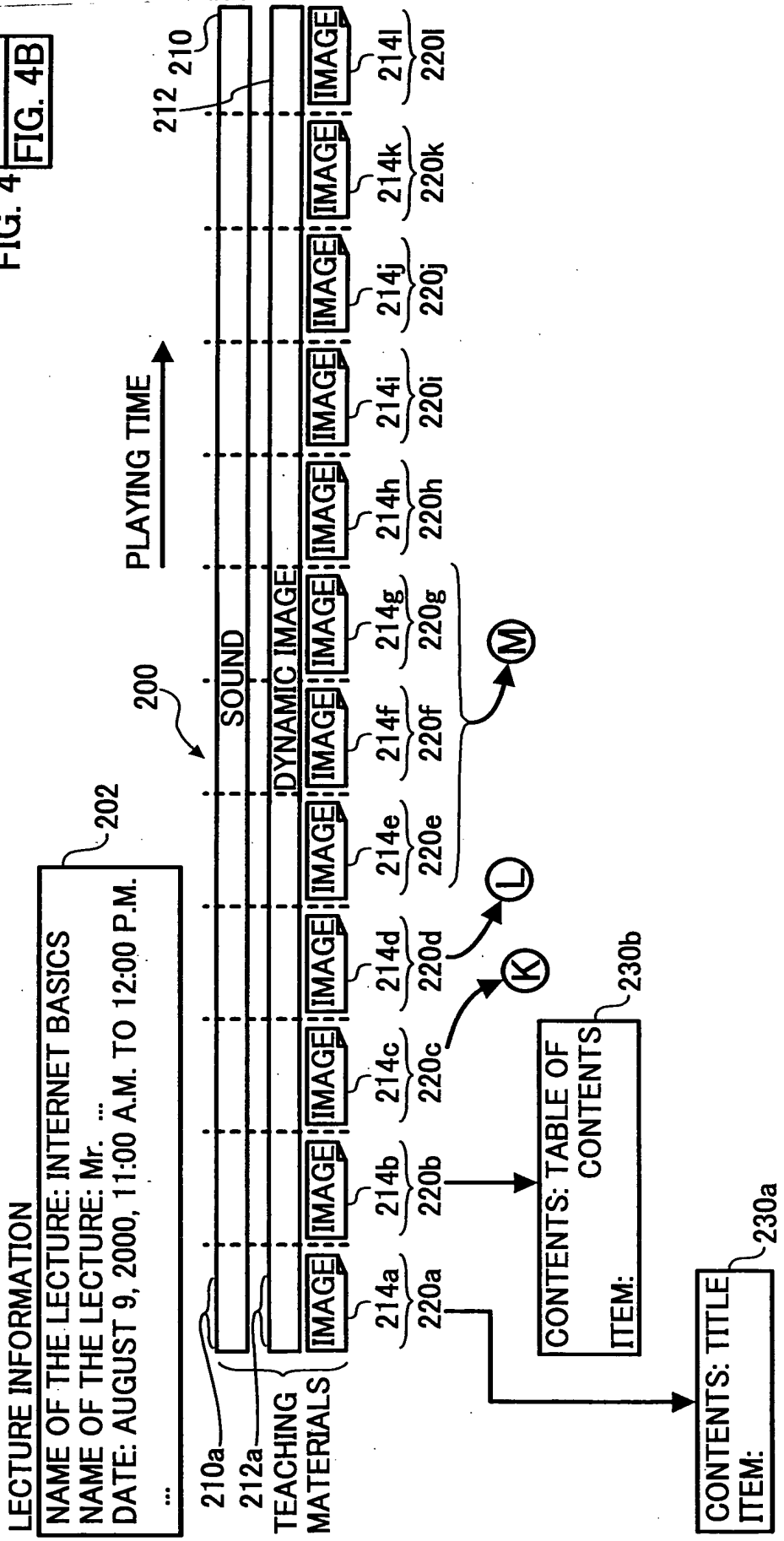
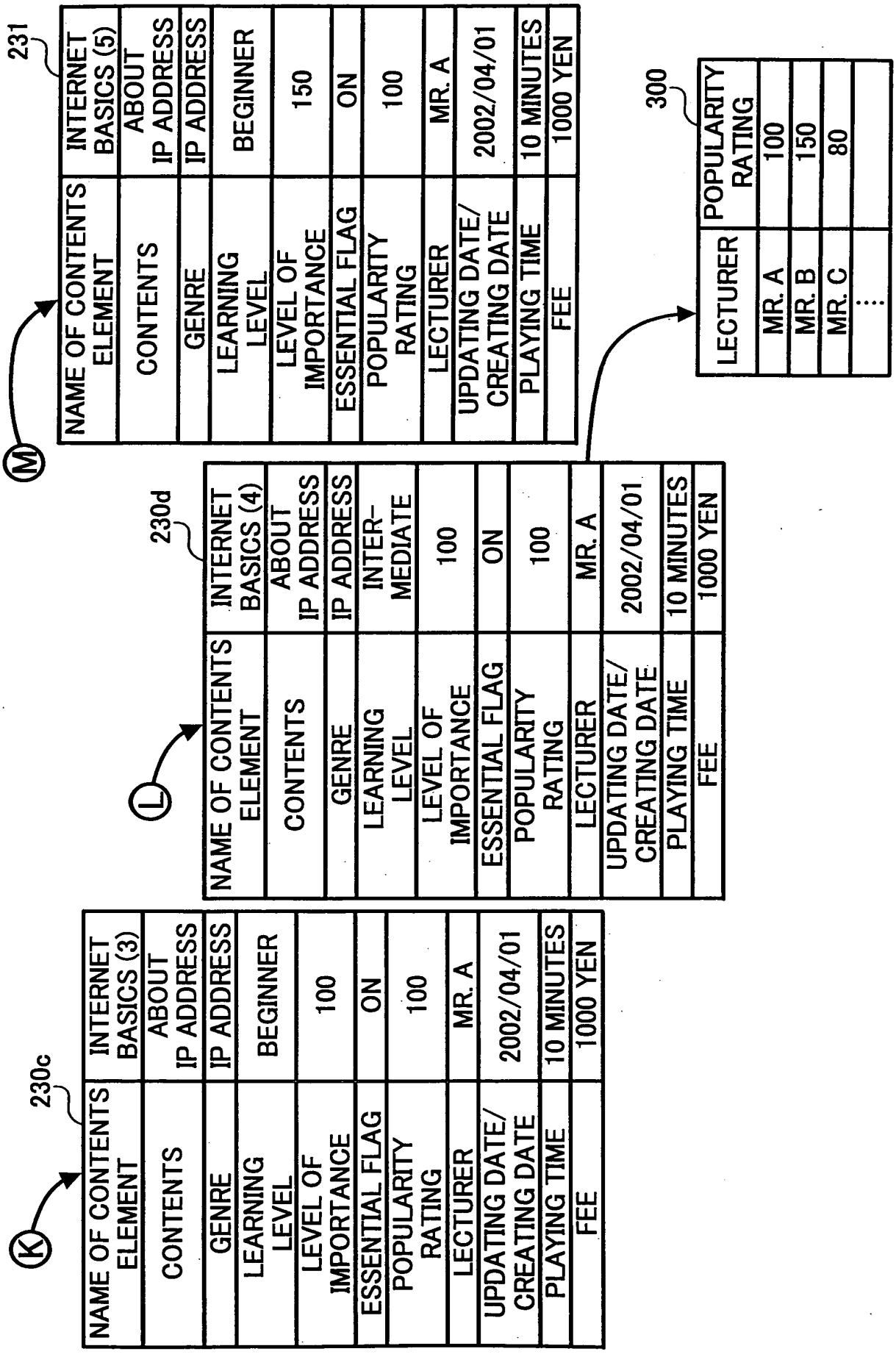


FIG. 4B


231
M
NAME OF CONTENTS ELEMENT
CONTENTS
GENRE
LEARNING LEVEL
LEVEL OF IMPORTANCE
ESSENTIAL FLAG
POPULARITY RATING
LECTURER
UPDATING DATE/ CREATING DATE
PLAYING TIME
FEE
INTERNET BASICS (5)
ABOUT IP ADDRESS
IP ADDRESS
BEGINNER
150
ON
100
MR. A
2002/04/01
10 MINUTES
1000 YEN
300
LECTURER
POPULARITY RATING
MR. A
100
MR. B
150
MR. C
80
....
230d
L
NAME OF CONTENTS ELEMENT
CONTENTS
GENRE
LEARNING LEVEL
LEVEL OF IMPORTANCE
ESSENTIAL FLAG
POPULARITY RATING
LECTURER
UPDATING DATE/ CREATING DATE
PLAYING TIME
FEE
INTERNET BASICS (4)
ABOUT IP ADDRESS
IP ADDRESS
INTER-MEDIATE
100
ON
100
MR. A
2002/04/01
10 MINUTES
1000 YEN
230c
K
NAME OF CONTENTS ELEMENT
CONTENTS
GENRE
LEARNING LEVEL
LEVEL OF IMPORTANCE
ESSENTIAL FLAG
POPULARITY RATING
LECTURER
UPDATING DATE/ CREATING DATE
PLAYING TIME
FEE
INTERNET BASICS (3)
ABOUT IP ADDRESS
IP ADDRESS
BEGINNER
100
ON
100
MR. A
2002/04/01
10 MINUTES
1000 YEN

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Inventor: Takako Hashimoto et al.
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Docket No.: S0255.0017/P017

FIG. 5A

FIG. 5

FIG. 5A
FIG. 5B

```
<MPEG-7>
  <TemporalDecomposition id="temporalDecomposition-5" criteria="structure" overlap="true" gap="true">
    <AudioVisualSegment id="structure-6">
      <StructuralUnit href="urn:ricoh:mmVISION:SegmentTypeCS:4">
        <Name xml:lang="en">structure</Name>
      </StructuralUnit>
<PointOfView viewpoint="KNOWLEDGE LEVEL">
        <SupplementalInformation>
          <FreeTextAnnotation>CONTENTS LEVEL OF THIS CONTENTS ELEMENT</FreeTextAnnotation>
        </SupplementalInformation>
        <Importance>
          <Value>1</Value>
        </Importance>
</PointOfView>
<PointOfView viewpoint="LEVEL OF IMPORTANCE">
        <SupplementalInformation>
          <FreeTextAnnotation>ABSOLUTE LEVEL OF IMPORTANCE OF THIS CONTENTS ELEMENT
          </FreeTextAnnotation>
        </SupplementalInformation>
        <Importance>
          <Value>100</Value>
        </Importance>
```

FIG. 5B

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</PointOfView>
<PointOfView viewpoint="POPULARITY RATING">
                </SupplementalInformation>
                 <FreeTextAnnotation>POPULARITY RATING DETERMINED BY FEEDBACK FROM USER
                 </FreeTextAnnotation>
                </SupplementalInformation>
                <Importance>
                 <Value>80</Value>
                </Importance>
</PointOfView>
 <MediaTime>
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mediaTimeBase="ancestor::Description/MultimediaContent[1]/AudioVisual[1]MediaTime[1]">P0DT0H0
M0S0N30F</MediaRelTimePoint>
          </MediaIncrDuration mediaTimeUnit="P0DT0H0M0S1N30F">1800</MediaIncrDuration>
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   <AudioVisualSegment id="structure-7">
   </AudioVisualSegment>


  </TemporalDecomposition>

</MPEG-7>
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REPLACEMENT SHEET

FIG. 6

FIG. 6A
FIG. 6B

FIG. 6A

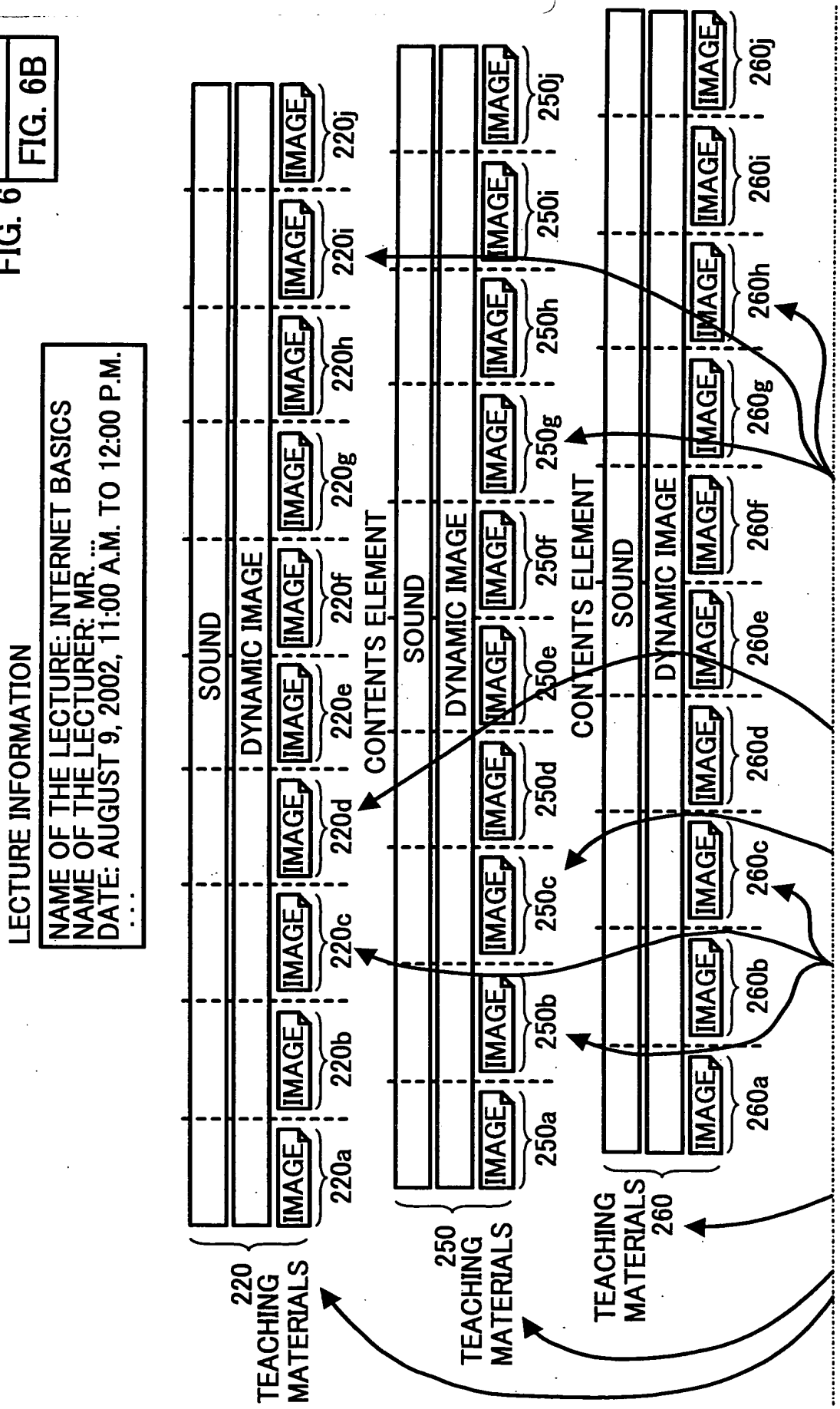

FIG. 6B

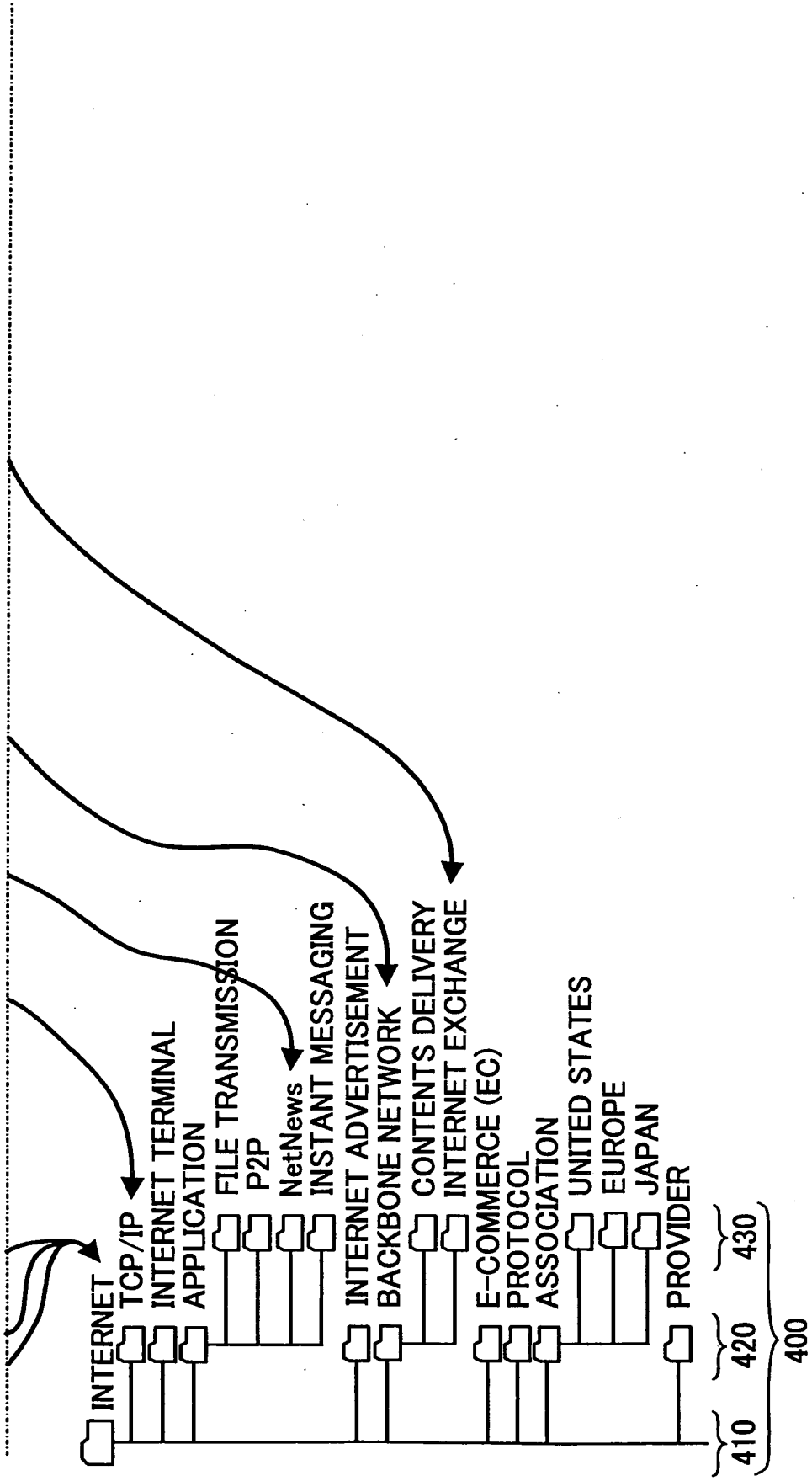
INTERNET
TCP/IP
INTERNET TERMINAL
APPLICATION
FILE TRANSMISSION
P2P
NetNews
INSTANT MESSAGING
INTERNET ADVERTISEMENT
BACKBONE NETWORK
CONTENTS DELIVERY
INTERNET EXCHANGE
E-COMMERCE (EC)
PROTOCOL
ASSOCIATION
UNITED STATES
EUROPE
JAPAN
PROVIDER
410
420
430
400

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FIG. 7

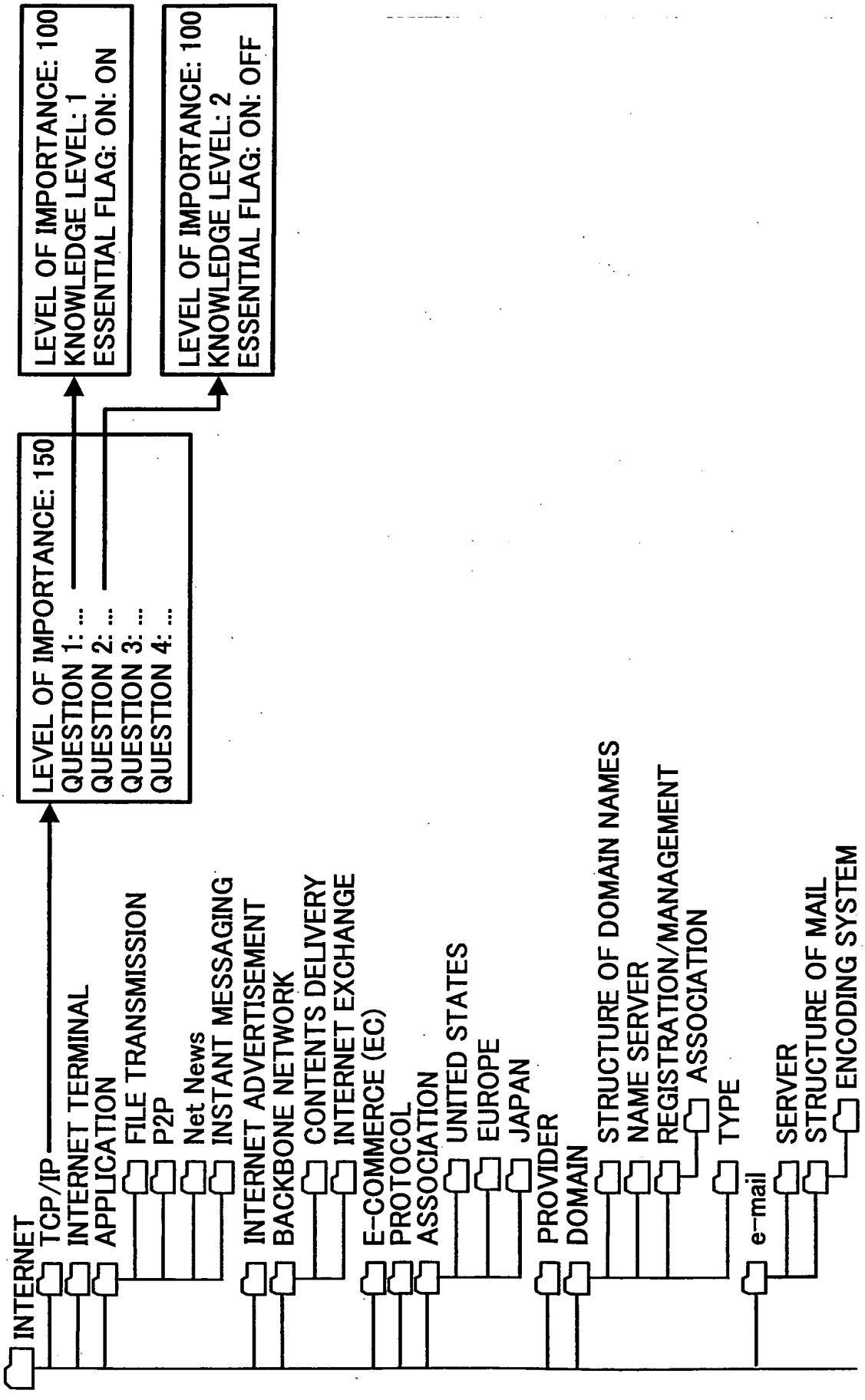


FIG. 8

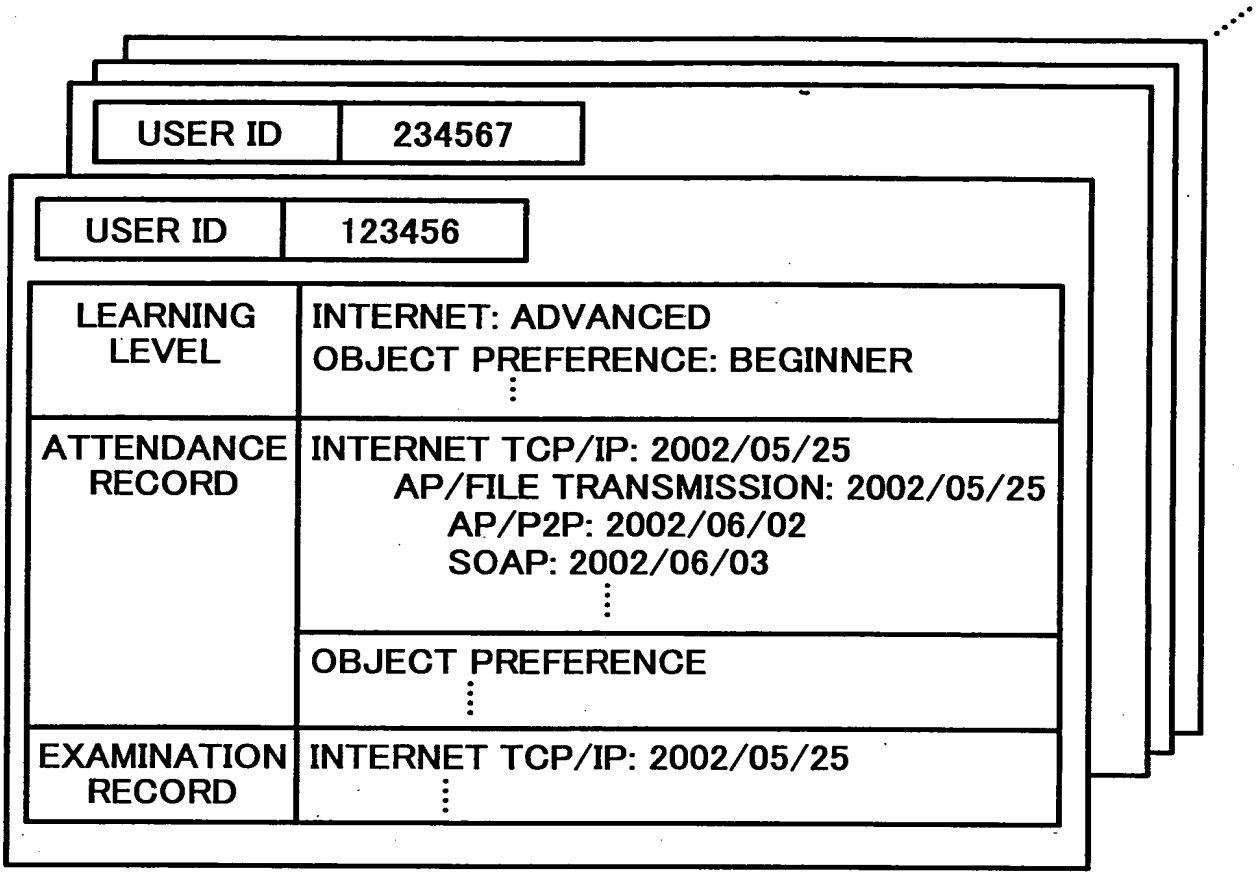

USER ID
234567
USER ID
123456
LEARNING LEVEL
INTERNET: ADVANCED
OBJECT PREFERENCE: BEGINNER
ATTENDANCE RECORD
INTERNET TCP/IP: 2002/05/25
AP/FILE TRANSMISSION: 2002/05/25
AP/P2P: 2002/06/02
SOAP: 2002/06/03
OBJECT PREFERENCE
EXAMINATION RECORD
INTERNET TCP/IP: 2002/05/25

FIG. 9

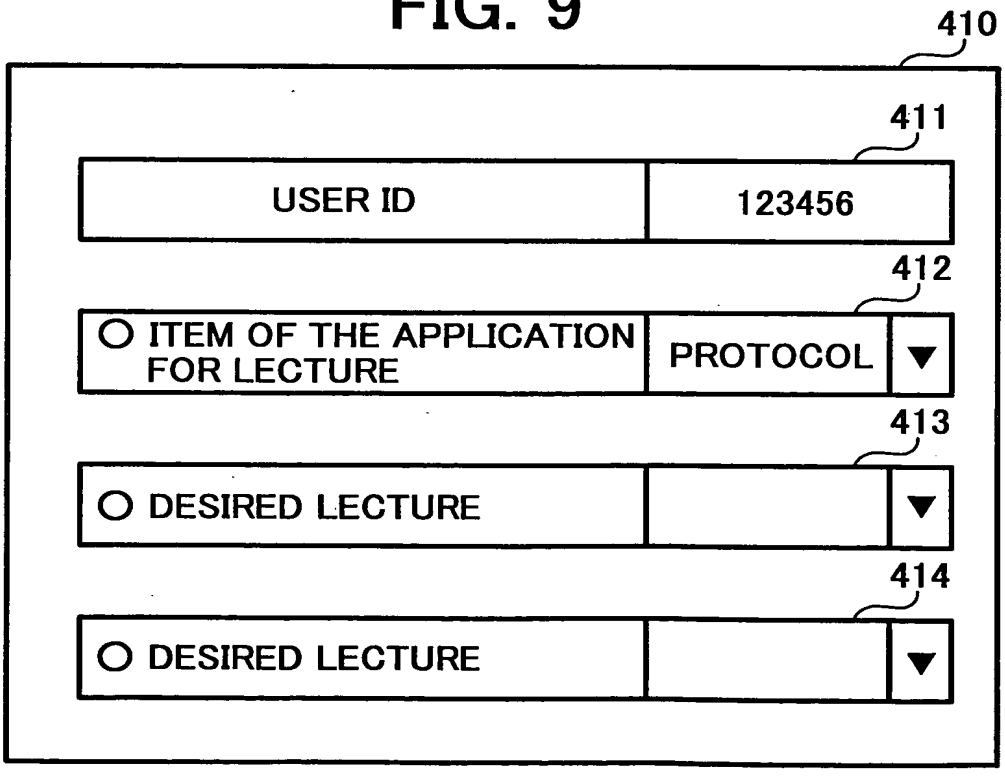
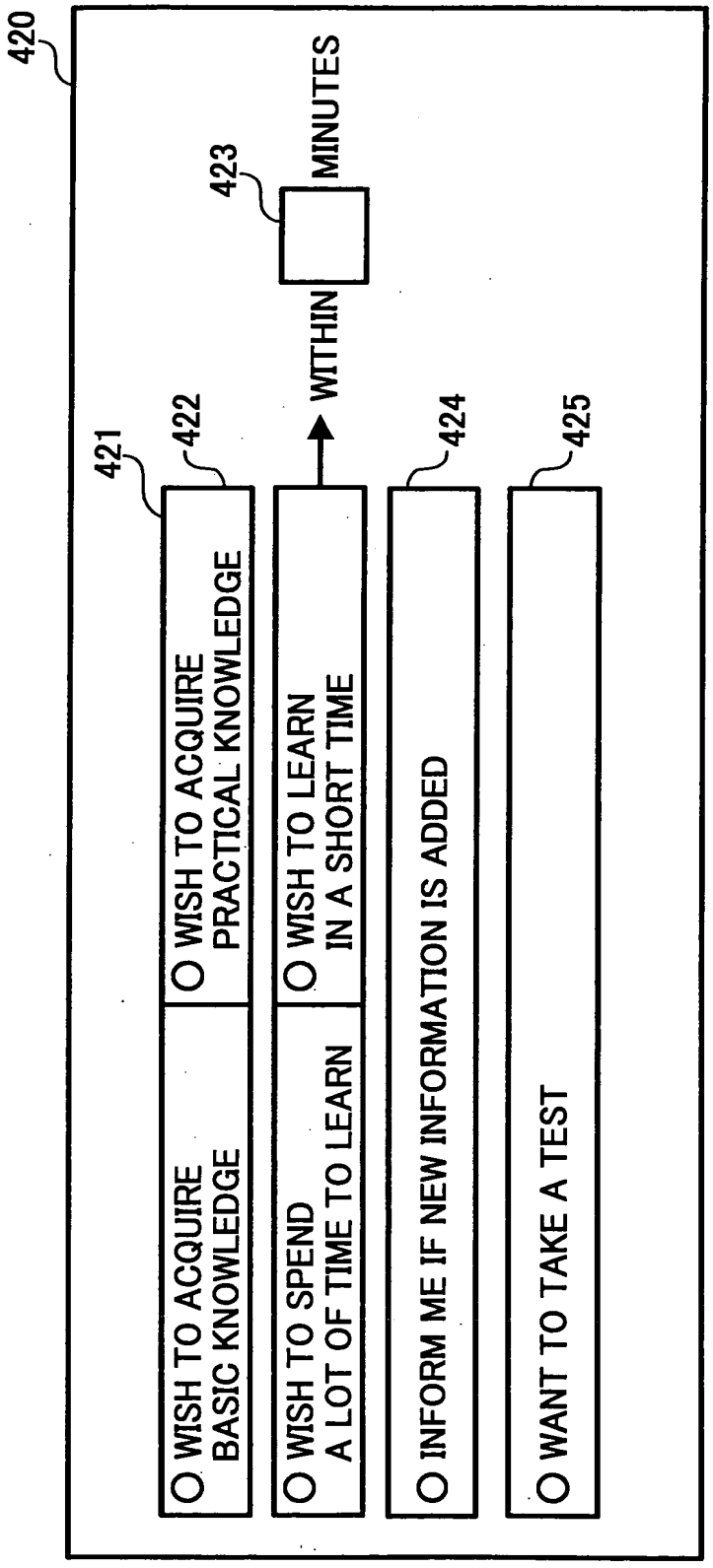

410
411
USER ID
123456
412
ITEM OF THE APPLICATION FOR LECTURE
PROTOCOL
413
DESIRED LECTURE
414
DESIRED LECTURE

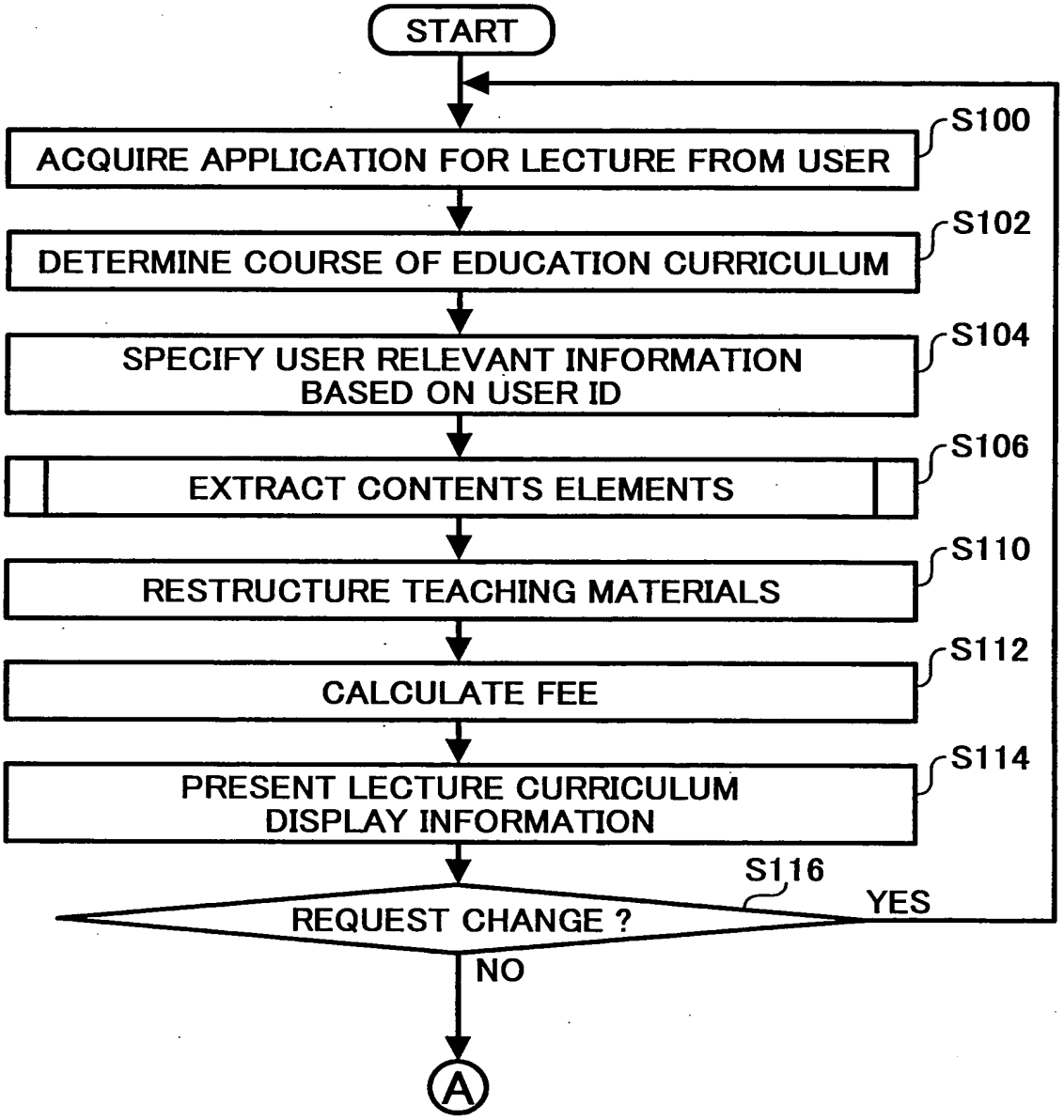
FIG. 10


420
421
422
423
424
425
WITHIN
MINUTES
O WISH TO ACQUIRE BASIC KNOWLEDGE
O WISH TO ACQUIRE PRACTICAL KNOWLEDGE
O WISH TO SPEND A LOT OF TIME TO LEARN
O WISH TO LEARN IN A SHORT TIME
O INFORM ME IF NEW INFORMATION IS ADDED
O WANT TO TAKE A TEST

REPLACEMENT SHEET

FIG. 11A

FIG. 11 FIG. 11A FIG. 11B



REPLACEMENT SHEET

FIG. 11B

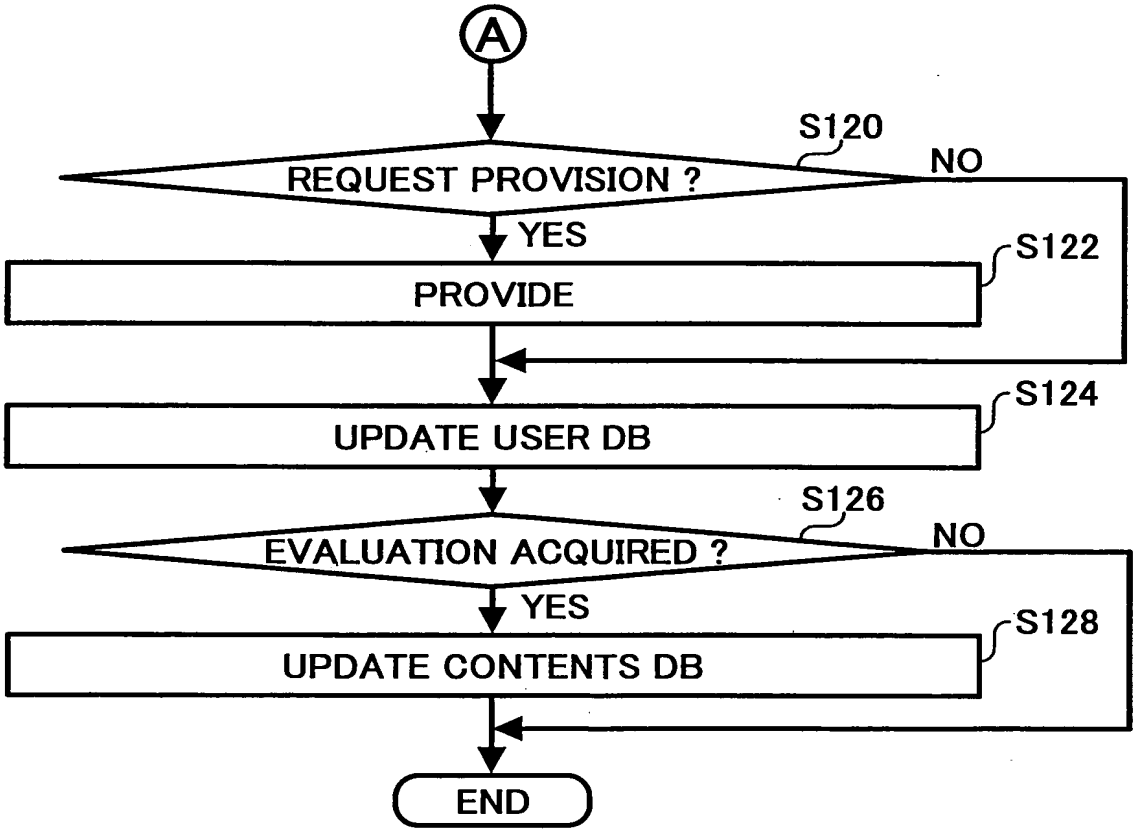


FIG. 12A

FIG. 12A-1
FIG. 12A-2

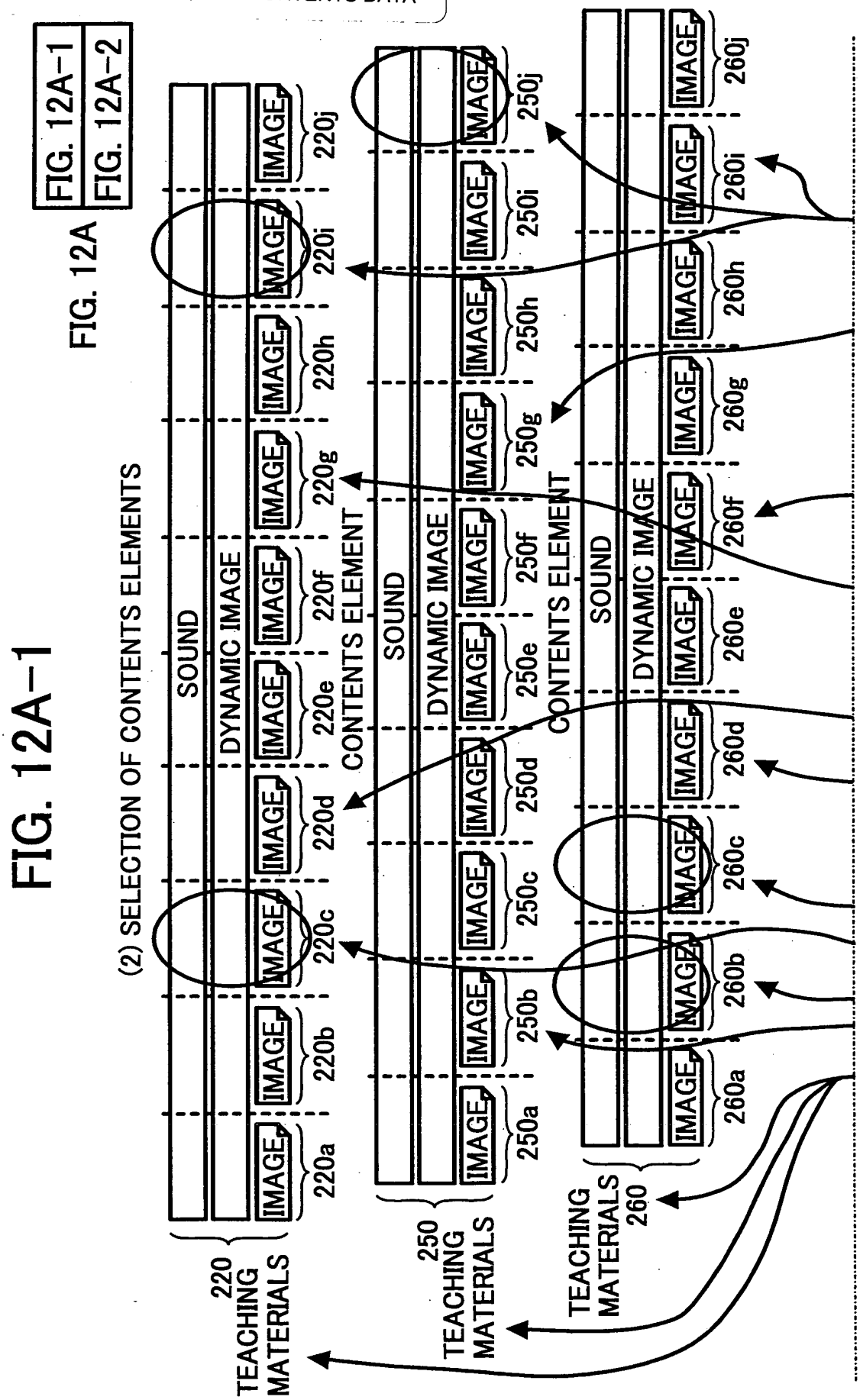


FIG. 12A-1

FIG. 12A-2

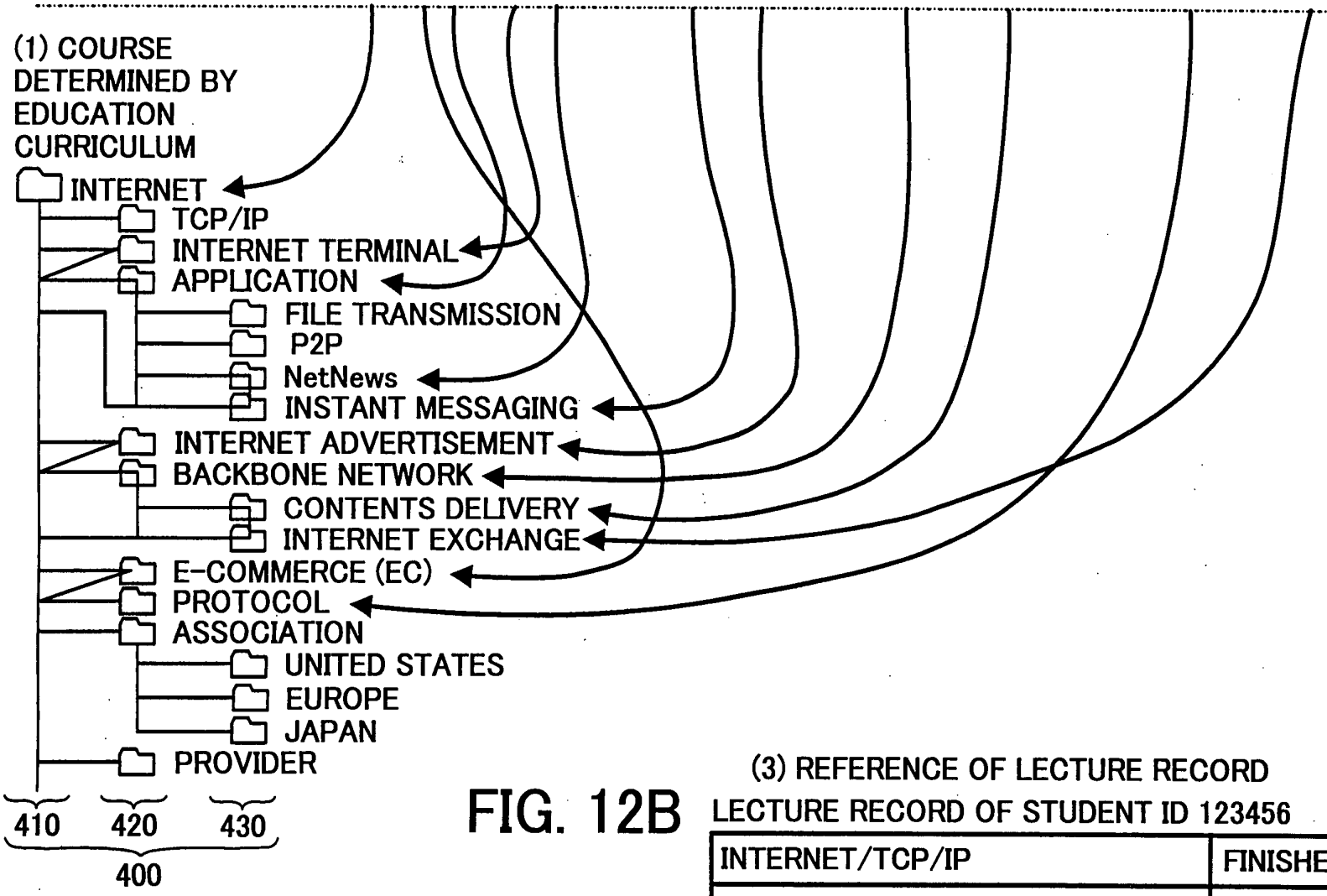


FIG. 12B

(3) REFERENCE OF LECTURE RECORD

LECTURE RECORD OF STUDENT ID 123456

INTERNET/TCP/IP	FINISHED	2002/05/25
INTERNET/AP/FILE TRANSMISSION	FINISHED	2002/05/25
INTERNET/AP/P2P	FINISHED	2002/06/02

REPLACEMENT SHEET

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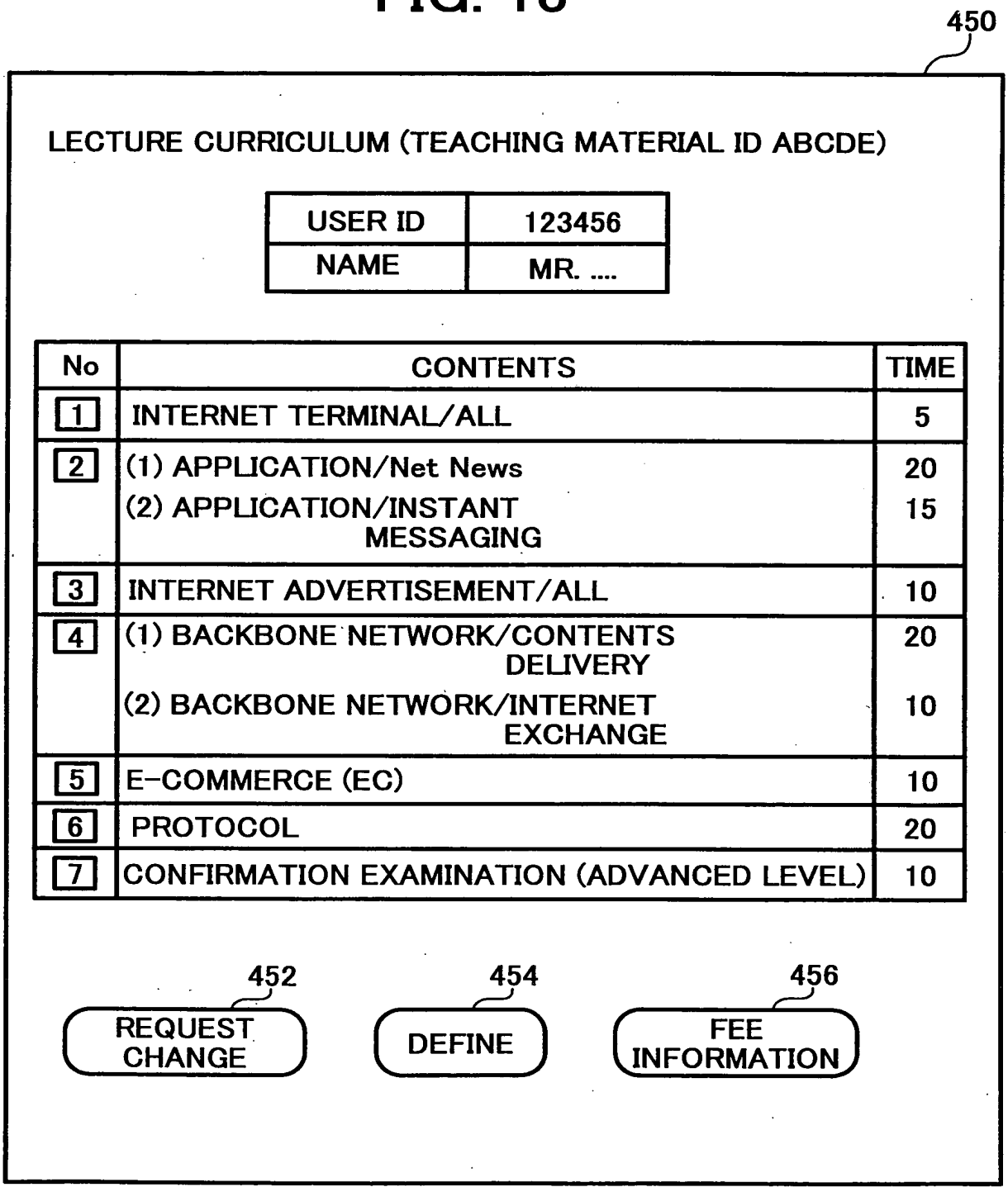
Docket No.: S0255.0017/P017

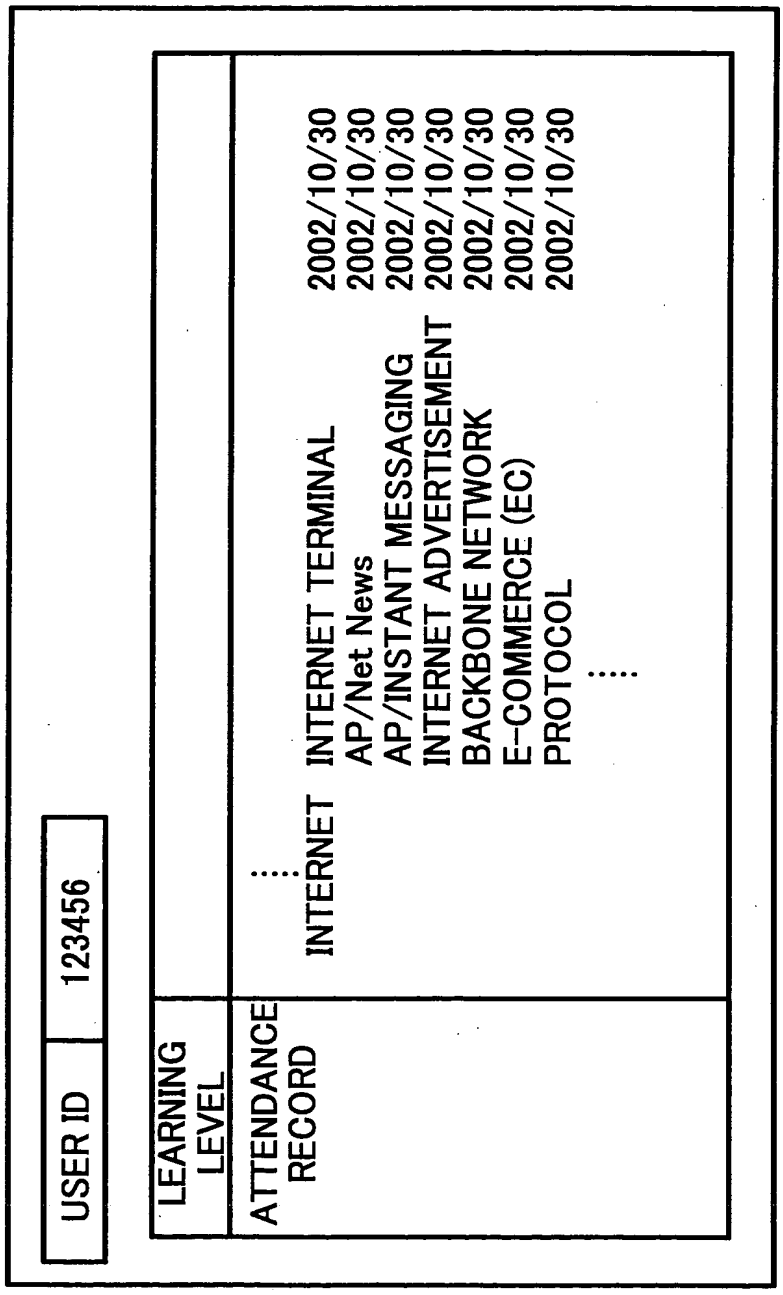
REPLACEMENT SHEET

FIG. 13



REPLACEMENT SHEET

FIG. 14



REPLACEMENT SHEET

FIG. 15

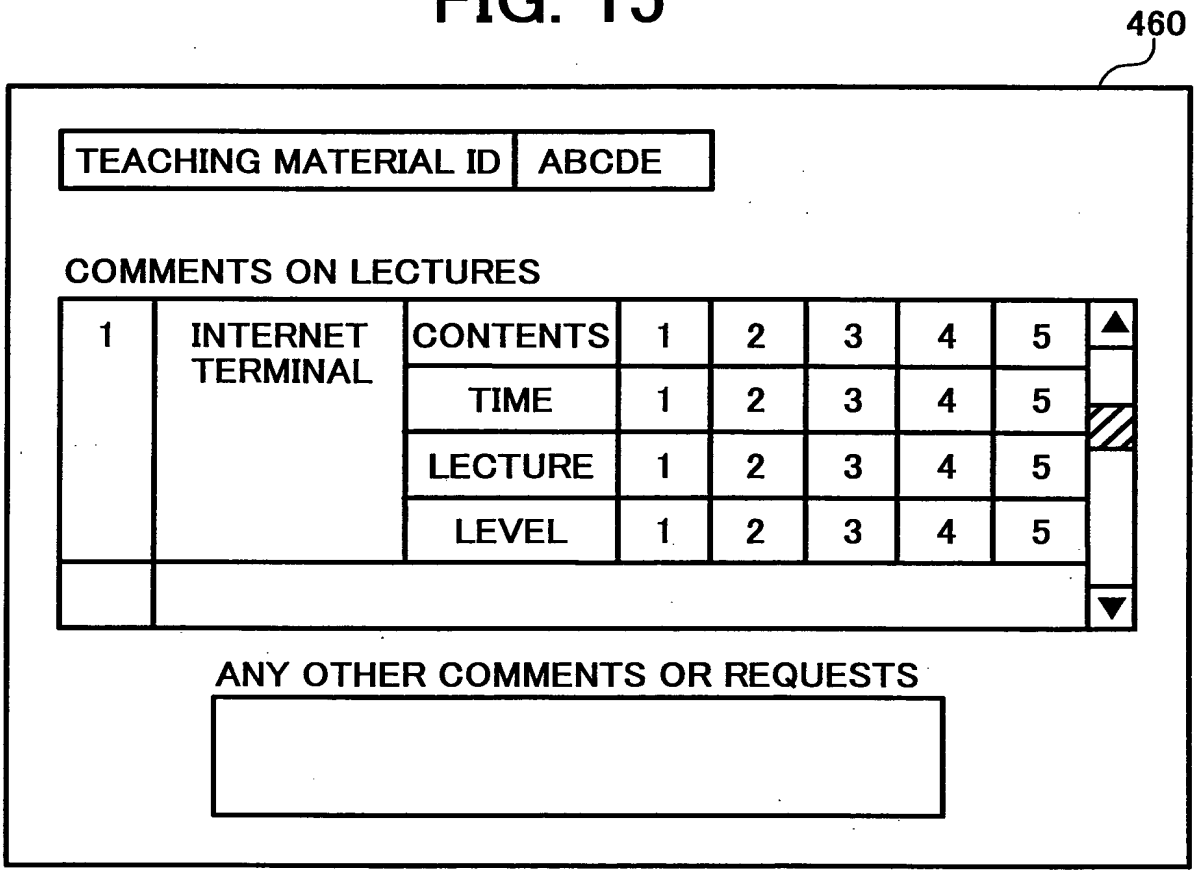
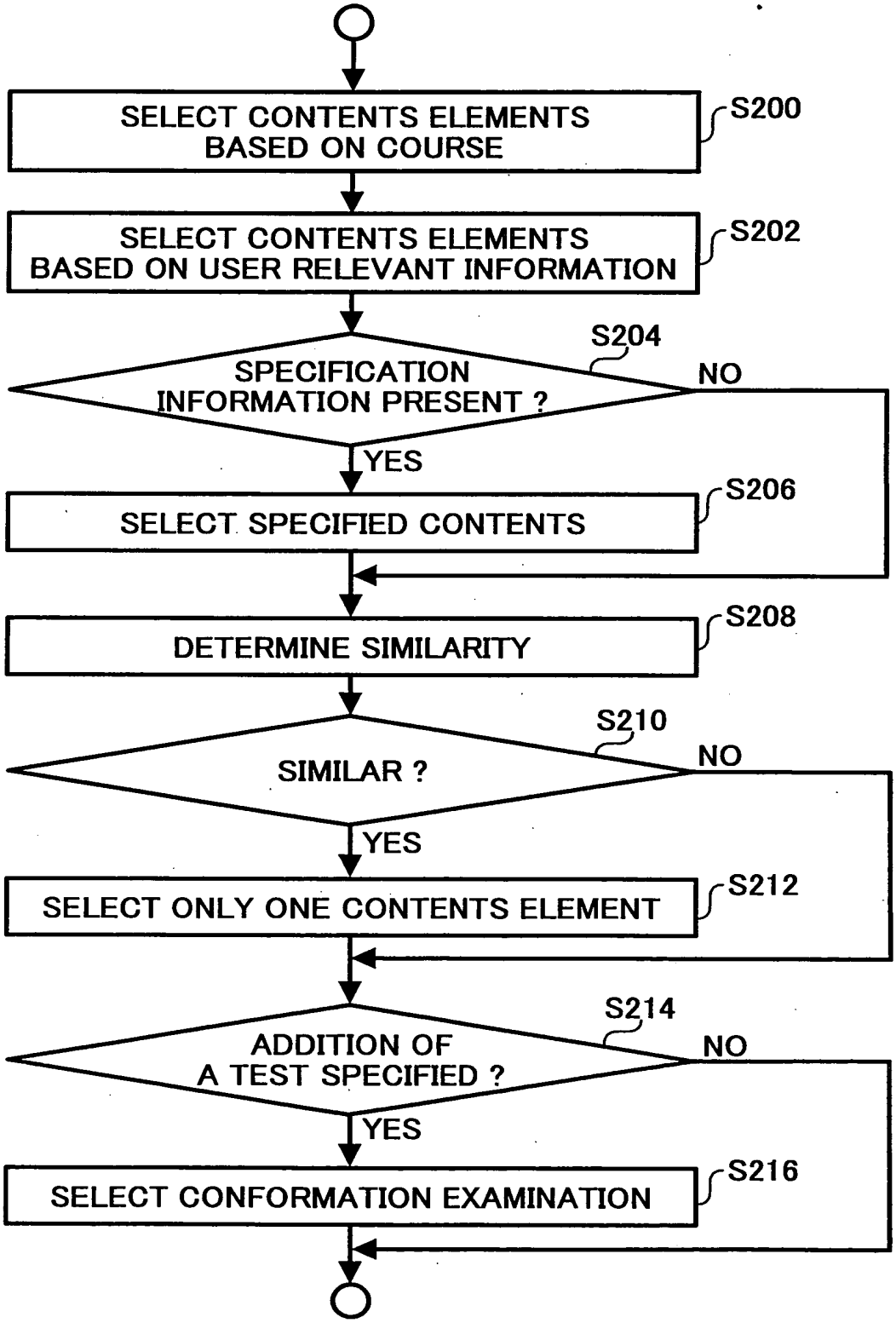
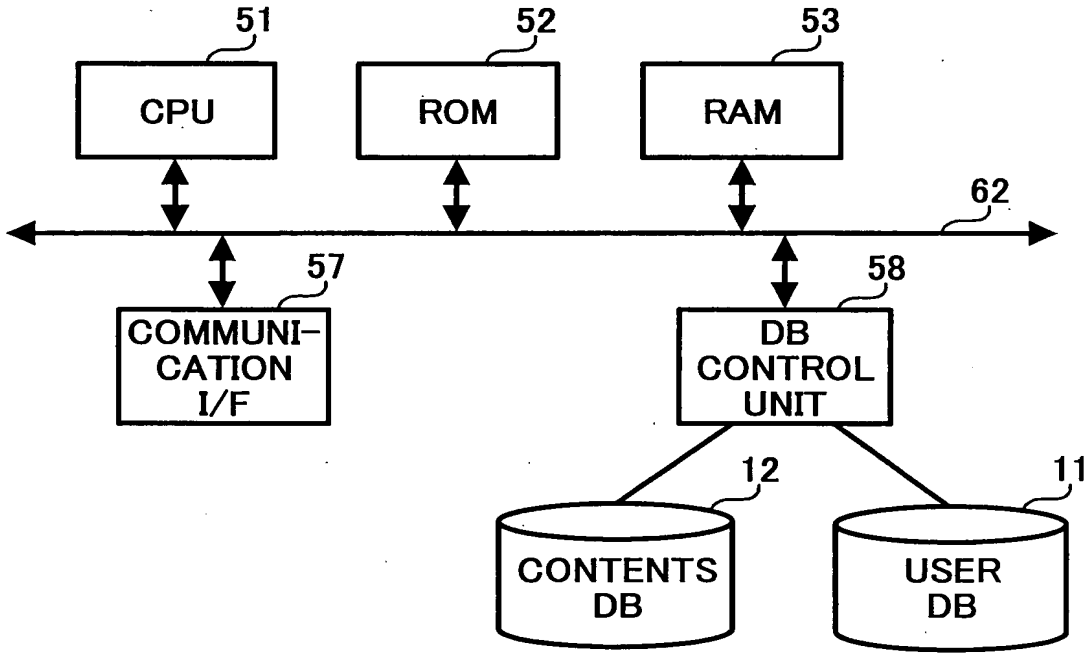


FIG. 16


SELECT CONTENTS ELEMENTS BASED ON COURSE
S200
SELECT CONTENTS ELEMENTS BASED ON USER RELEVANT INFORMATION
S202
S204
SPECIFICATION INFORMATION PRESENT ?
NO
YES
SELECT SPECIFIED CONTENTS
S206
DETERMINE SIMILARITY
S208
S210
SIMILAR ?
NO
YES
SELECT ONLY ONE CONTENTS ELEMENT
S212
S214
ADDITION OF A TEST SPECIFIED ?
NO
YES
SELECT CONFORMATION EXAMINATION
S216

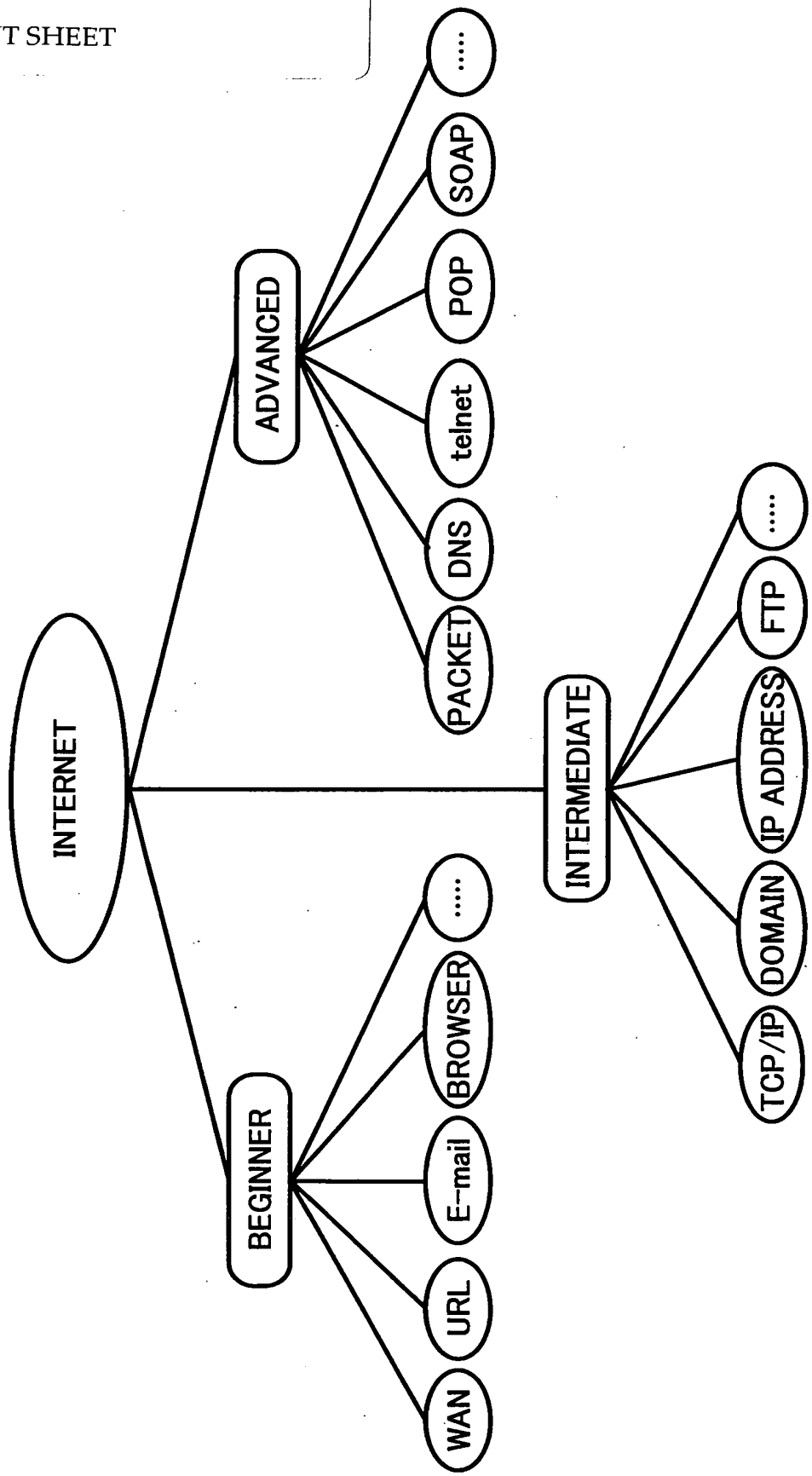
REPLACEMENT SHEET

FIG. 17



REPLACEMENT SHEET

FIG. 18



REPLACEMENT SHEET

FIG. 19

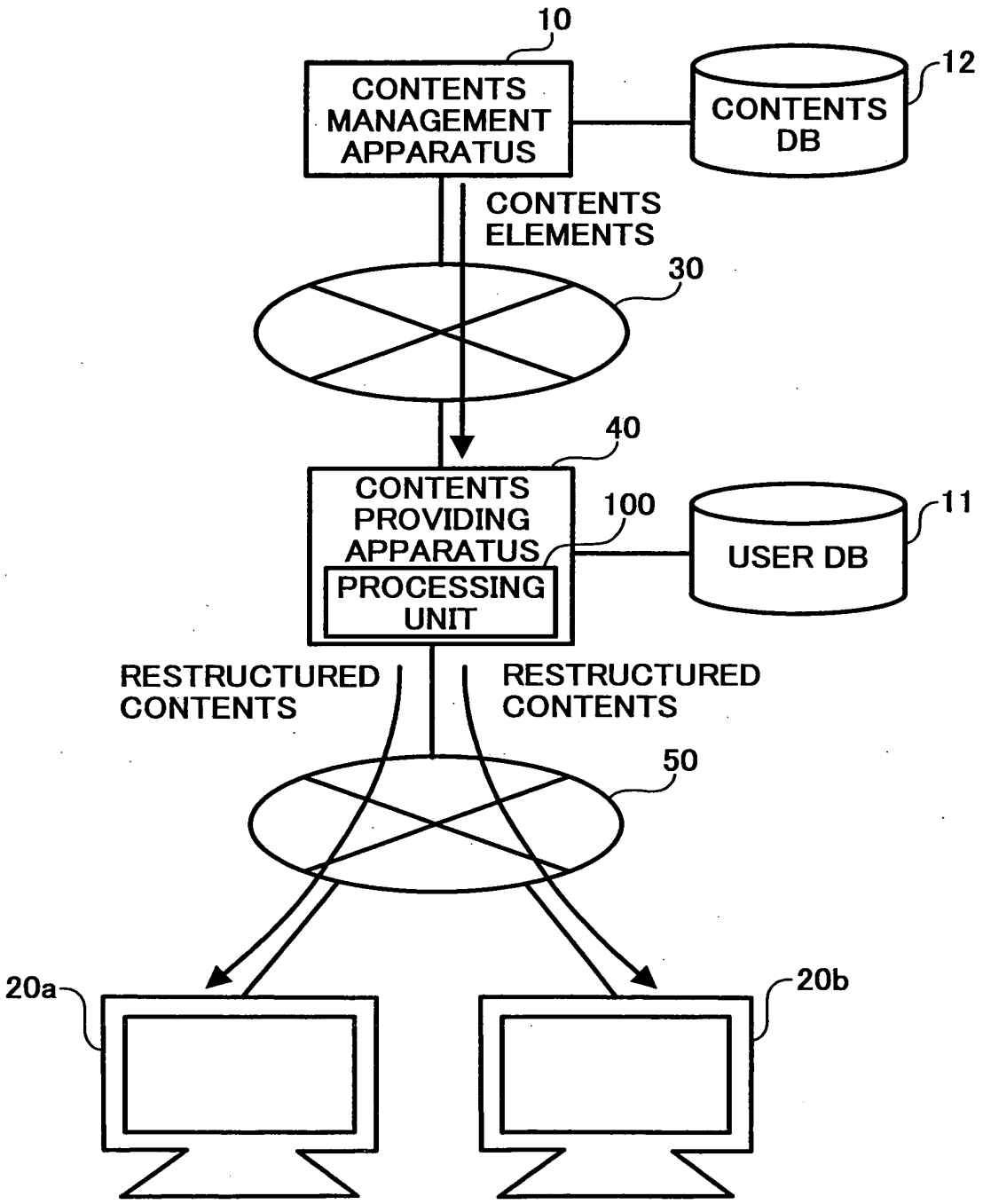


FIG. 20A

FIG. 20 FIG. 20A FIG. 20B

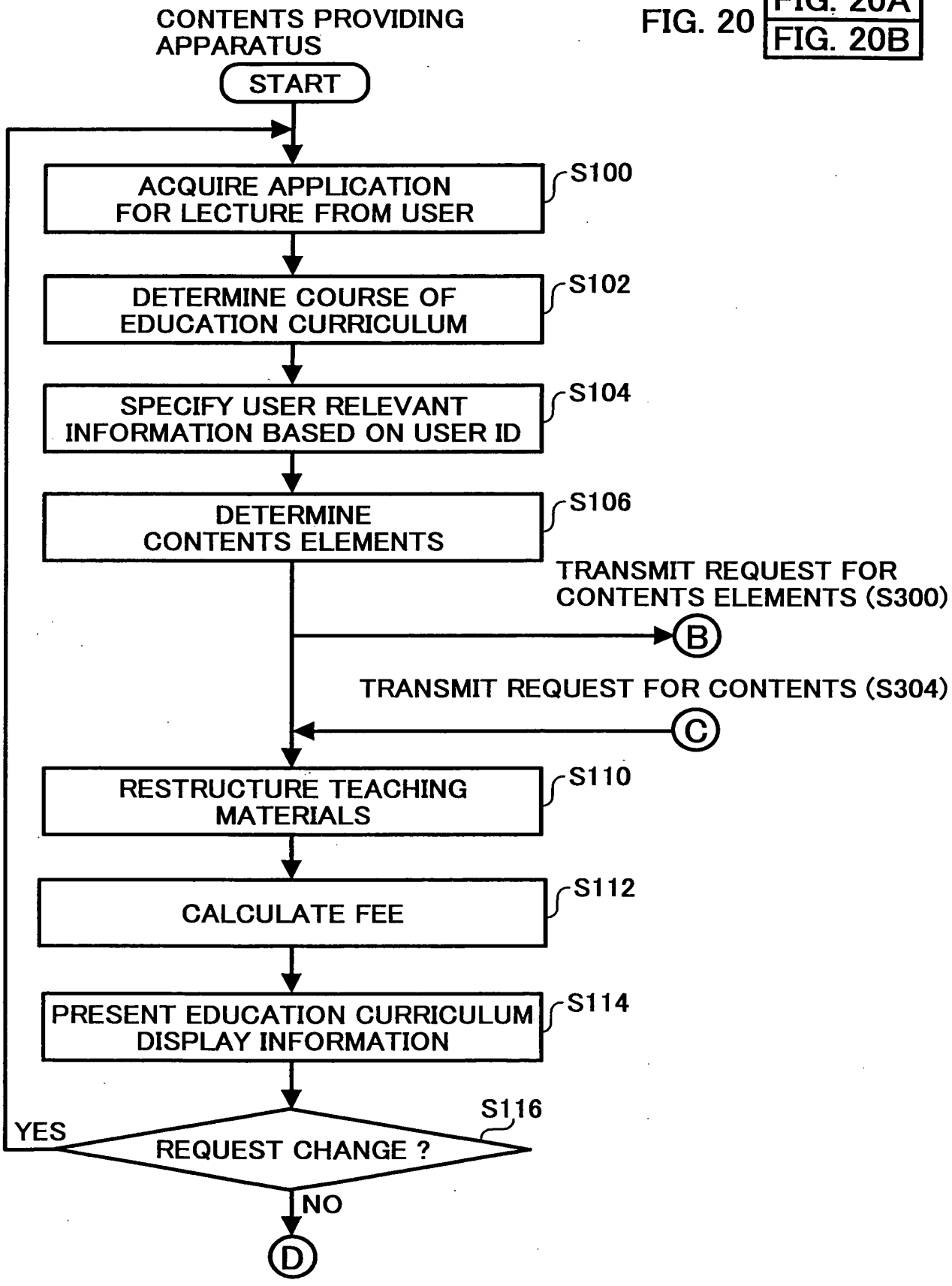
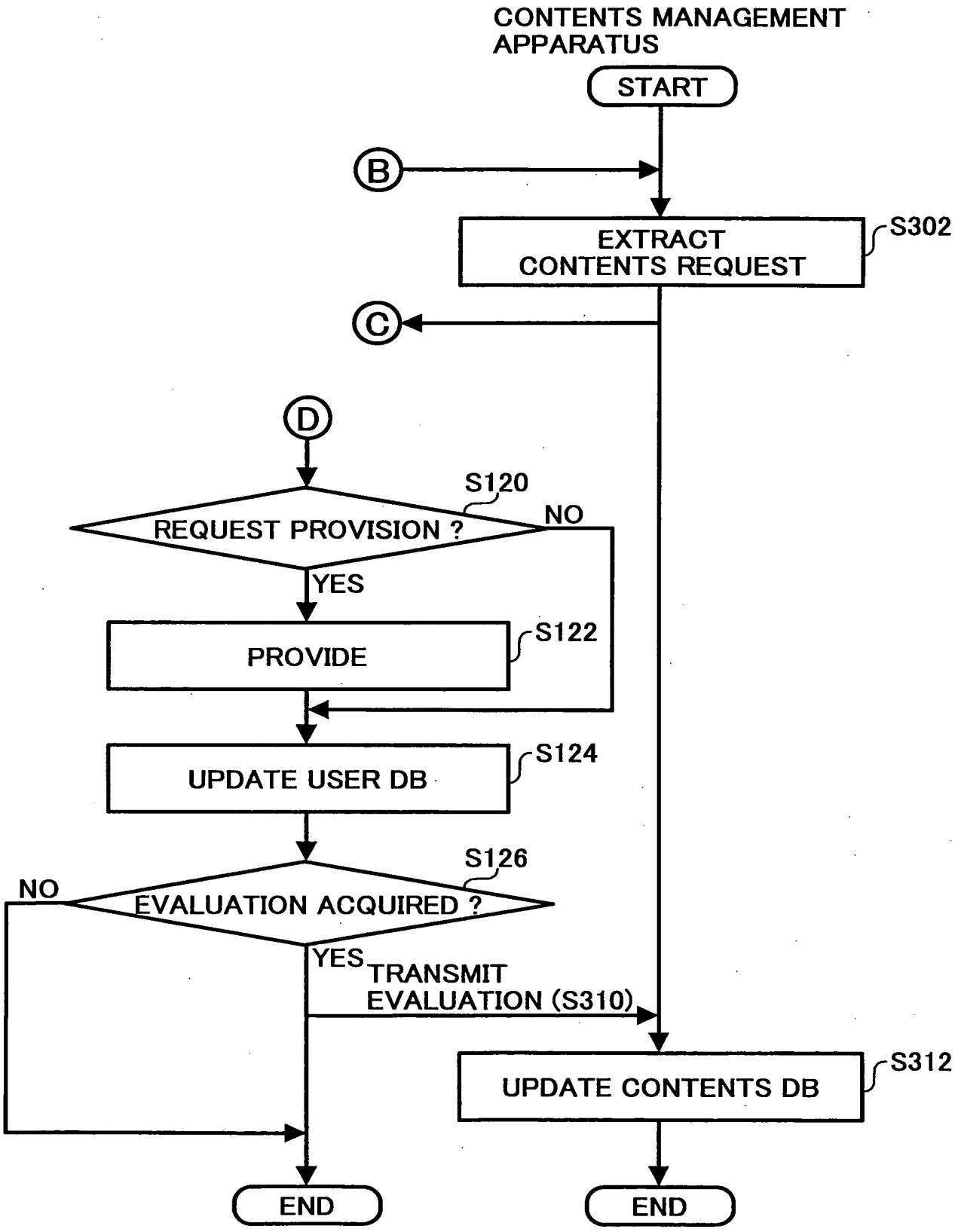


FIG. 20B


CONTENTS MANAGEMENT APPARATUS
START
B
EXTRACT CONTENTS REQUEST
S302
C
D
S120
REQUEST PROVISION ?
NO
YES
PROVIDE
S122
UPDATE USER DB
S124
S126
NO
EVALUATION ACQUIRED ?
YES
TRANSMIT EVALUATION (S310)
UPDATE CONTENTS DB
S312
END
END

REPLACEMENT SHEET

FIG. 21

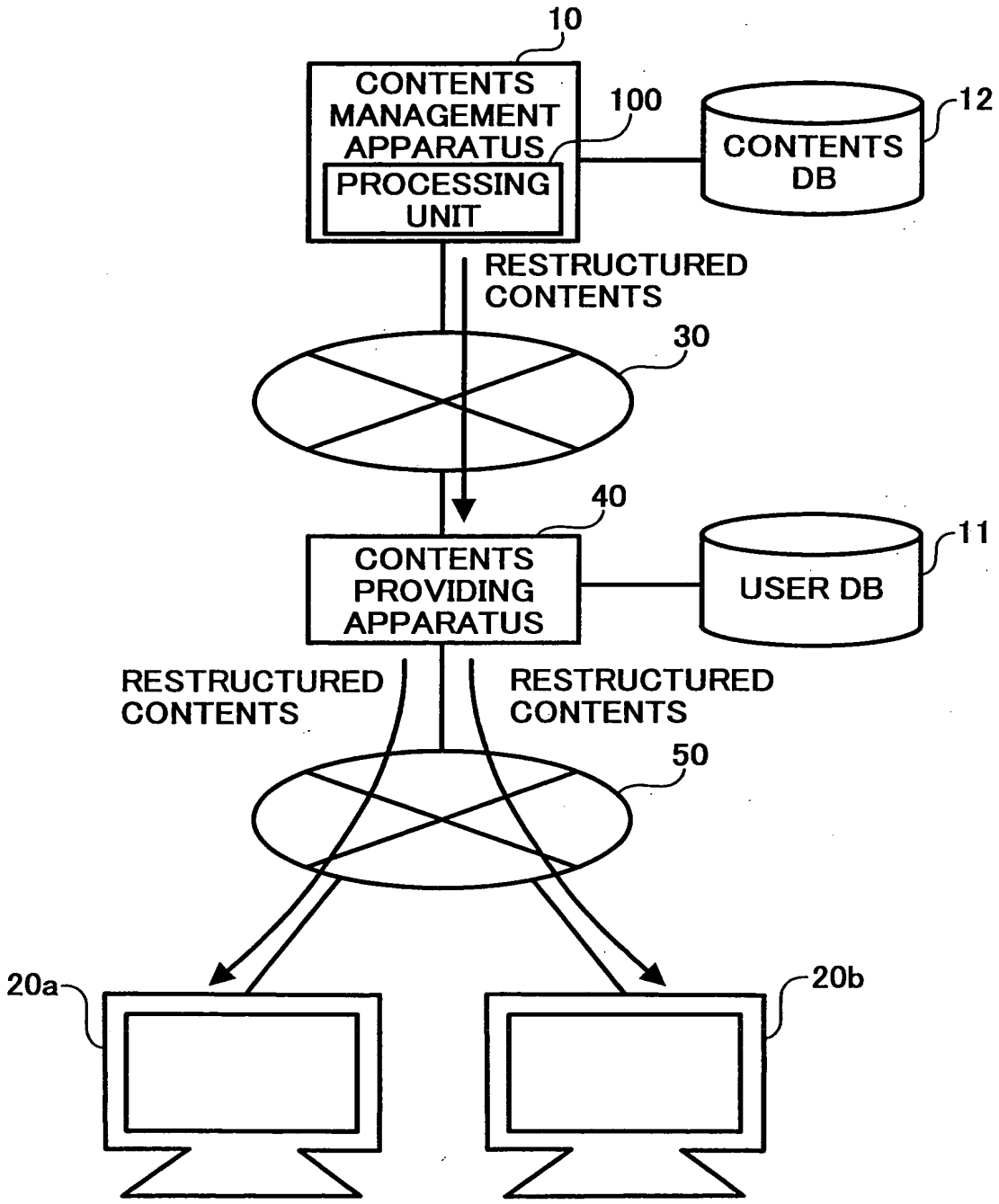
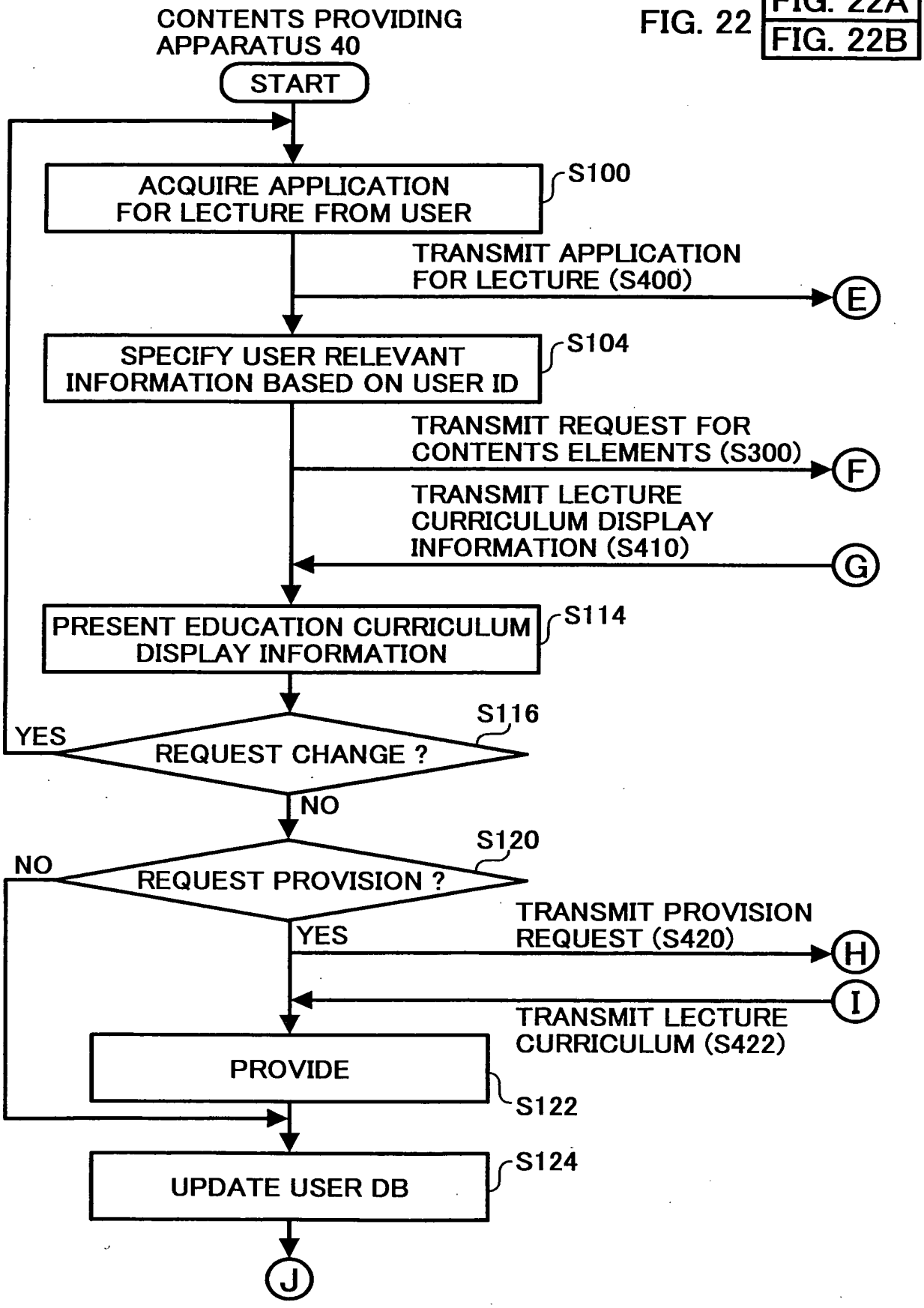


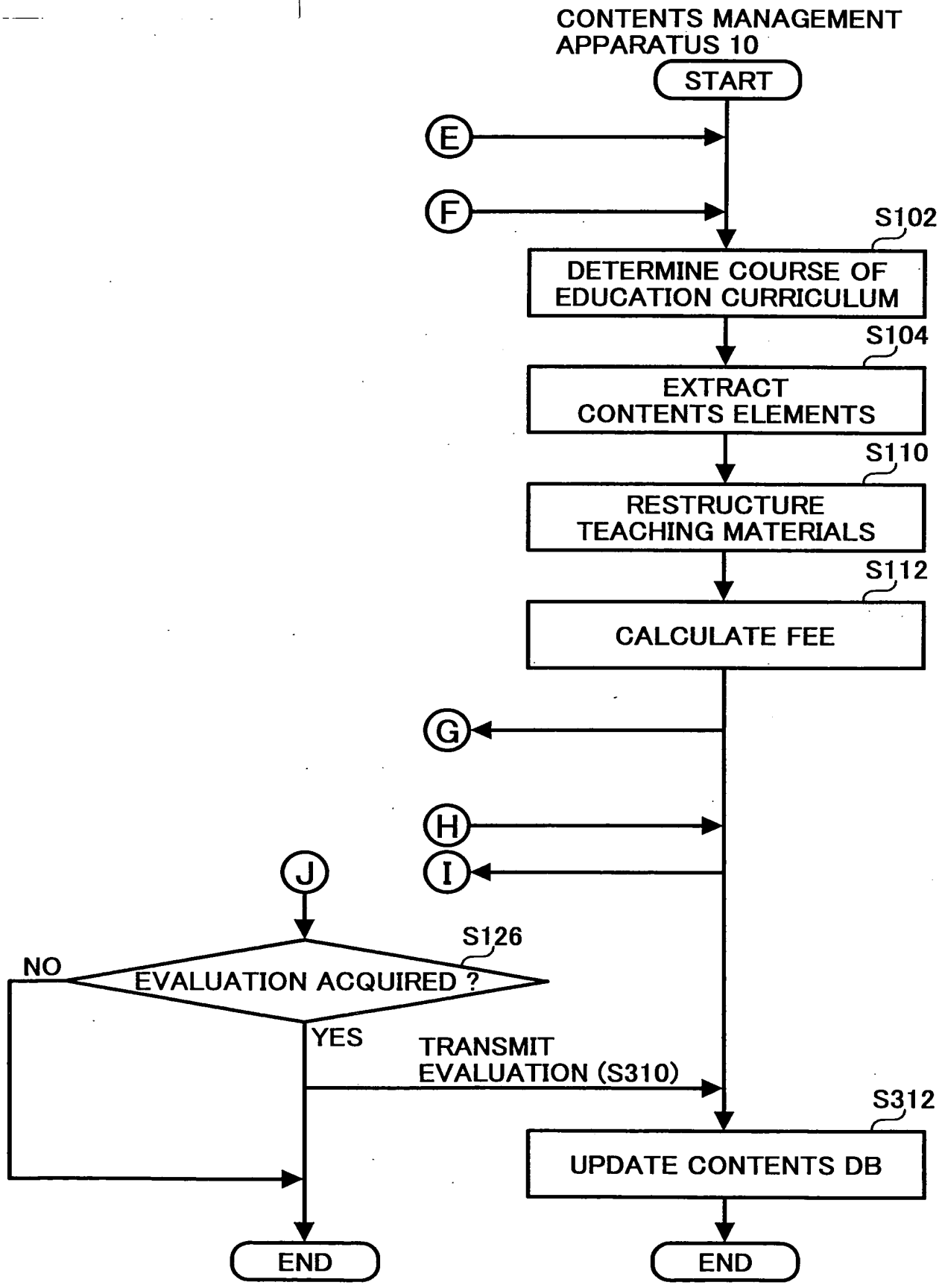
FIG. 22A

FIG. 22 FIG. 22A FIG. 22B



REPLACEMENT SHEET

FIG. 22B



REPLACEMENT SHEET

FIG. 23

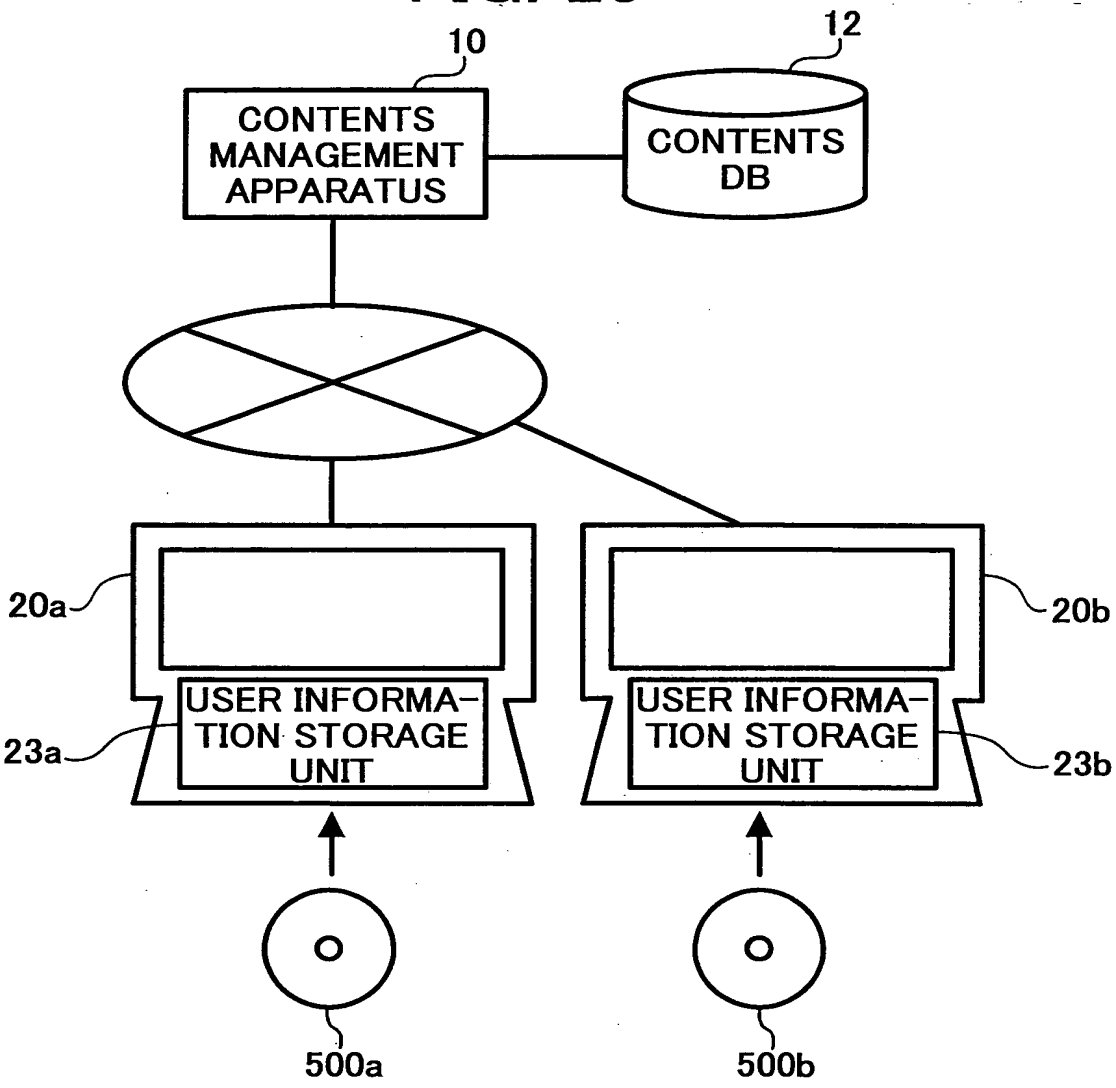
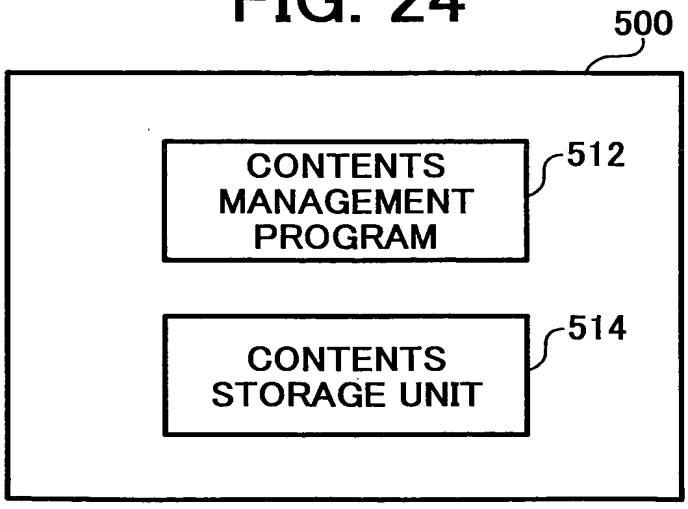



FIG. 24